Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A nutrient composition for augmenting immune strength or physiological detoxification comprising an optimal combination of a substantially pure and an effective amount of at least one vitamin antioxidant, at least one mineral antioxidant and a highly saturable amount of at least three high potency antioxidants.

2. (original) The nutrient composition of claim 1, wherein said at least three high potency antioxidants are selected from alpha lipoic acid, acetyl L-carnitine, N-acetyl-cysteine, co-enzyme Q10 and glutathione.

3. (original) The nutrient composition of claim 1, wherein said at least three high potency antioxidants comprise alpha lipoic acid, acetyl L-carnitine and N-acetyl-cysteine.

4. (original) The nutrient composition of claim 1, wherein said at least one vitamin antioxidant is selected from vitamin C, bioflavonoid complex, vitamin E, vitamin B6 and beta-carotene.

5. (original) The nutrient composition of claim 1, wherein said at least one vitamin antioxidant comprises vitamin C, bioflavonoid complex and vitamin E.

6. (original) The nutrient composition of claim 1, wherein said at least one mineral antioxidant is selected from zinc and selenium.

7. (original) The nutrient composition of claim 1, wherein said at least one mineral antioxidant comprises zinc and selenium.

8. (original) The nutrient composition of claim 1, wherein said vitamin antioxidant, said mineral antioxidant or said high potency antioxidant comprises a purity level of about 99% by total weight.

9. (original) The nutrient composition of claim 1, further comprising an effective amount of one or more vitamins or minerals.

10. (original) The nutrient composition of claim 8, wherein said one or more vitamins or minerals are selected from the group consisting of beta-carotene, vitamin A, vitamin B1, vitamin B2, niacinamide, calcium panthothenate, choline, inositol, folic acid, biotin, vitamin D3, vitamin B12, calcium, magnesium, iron, iodine, copper, manganese, potassium, chromium, molybdenum, boron, betaine, glutamic acid.

11. (original) The nutrient composition of claim 10, wherein said one or more vitamins or minerals comprise a purity level of about 99% by total weight.

12. (currently amended) A nutrient composition for augmenting immune strength or physiological detoxification comprising an optimal combination of a substantially pure and an effective amount of at least three vitamin antioxidants, at least two mineral antioxidants and a highly saturable amount of at least three high potency antioxidants.

13. (original) The nutrient composition of claim 12, wherein said at least three high potency antioxidants are selected from alpha lipoic acid, acetyl L-carnitine, N-acetyl-cysteine, co-enzyme Q10 and glutathione.

14. (original) The nutrient composition of claim 12, wherein said at least three high potency antioxidants comprise alpha lipoic acid, acetyl L-carnitine and N-acetyl-cysteine.

15. (original) The nutrient composition of claim 12, wherein said at least three vitamin antioxidants are selected from vitamin C, bioflavonoid complex, vitamin E, vitamin B6 and beta-carotene.

16. (original) The nutrient composition of claim 12, wherein said at least three vitamin antioxidants comprise vitamin C, bioflavonoid complex and vitamin E.

17. (original) The nutrient composition of claim 12, wherein said at least two mineral antioxidants comprise zinc and selenium.

18. (original) The nutrient composition of claim 12, wherein said vitamin antioxidant, said mineral antioxidant or said high potency antioxidant comprises a purity level of about 99% by total weight.

19. (original) The nutrient composition of claim 12, further comprising an effective amount of one or more vitamins or minerals.

20. (original) The nutrient composition of claim 18, wherein said one or more vitamins or minerals are selected from the group consisting of beta-carotene, vitamin A, vitamin B1, vitamin B2, niacinamide, calcium panthothenate, choline inositol, folic acid, biotin, vitamin D3, vitamin B12, calcium, magnesium, iron, iodine, copper, manganese, potassium, chromium, molybdenum, boron, betaine, glutamic acid.

21. (original) The nutrient composition of claim 20, wherein said one or more vitamins or minerals comprise a purity level of about 99% by total weight.

22. (currently amended) A nutrient composition for augmenting immune strength or physiological detoxification comprising an optimal combination of a substantially pure and an effective amount of vitamin C, bioflavonoid complex, vitamin E, zinc, selenium, alpha lipoic acid, acetyl L-carnitine and N-acetyl-cysteine.

23. (original) The nutrient composition of claim 22, further comprising an effective amount of vitamin B6.

24. (original) The nutrient composition of claim 22, wherein said vitamin C, bioflavonoid complex, vitamin E, zinc, selenium, alpha lipoic acid, acetyl L-carnitine and N-acetyl-cysteine comprise a purity level of about 99% by total weight.

25. (original) The nutrient composition of claim 22, further comprising an effective amount of one or more vitamins or minerals.

26. (original) The nutrient composition of claim 24, wherein said one or more vitamins or minerals are selected from the group consisting of beta-carotene, vitamin A, vitamin B1, vitamin B2, niacinamide, calcium panthothenate, choline inositol, folic acid, biotin, vitamin D3, vitamin B12, calcium, magnesium, iron, iodine, copper, manganese, potassium, chromium, molybdenum, boron, betaine, glutamic acid.

27. (original) The nutrient composition of claim 26, wherein said one or more vitamins or minerals comprise a purity level of about 99% by total weight.

28. (original) A method of stimulating immune system function comprising administering to an individual the composition of claims 1, 12 or 22 one or more times a day over a period of about 5-7 weeks, said immune system function being stimulated to result in an increase of $CD4^+$ cells of at least about 15% compared to pre-administration levels.

29. (original) The method of claim 28, wherein said increase of $CD4^+$ cells further comprises an increase of greater than about 25% compared to pre-administration levels.

30. (original) The method of claim 28, wherein said increase of $CD4^+$ cells further comprises an increase of about 40% compared to pre-administration levels.

31. (original) The method of claim 28, wherein said stimulation of said immune system function promotes longevity and physiological healing.

32. (original) A method of stimulating a physiological detoxification function of an individual comprising administering to an individual the composition of claims 1, 12 or 22 one or more times a day over a period of about 5-7 weeks, said physiological detoxification function being stimulated to result in a decrease of one or more free radical markers by about 20% compared to pre-administration levels.

33. (original) The method of claim 32, wherein said decrease of free radical markers comprises a decrease of greater than about 30% compared to pre-administration levels.

34. (original) The method of claim 32, wherein said decrease of free radical markers comprises a decrease of greater than about 40% compared to pre-administration levels.

35. (original) The method of claim 32, wherein said decrease of free radical markers comprises a decrease of about 50% compared to pre-administration levels.

36. (original) The method of claim 32, wherein said stimulation of a physiological detoxification function comprises inhibition of mitochondrial DNA polymerase gamma.

37. (original) The method of claim 32, wherein said stimulation of a physiological detoxification function comprises increasing a liver detoxification function.

38. (original) The method of claim 37, wherein said liver detoxification function comprises an increase in energy production, an increased ability to process toxins or a decrease in free radical buildup.

39. (original) A method of augmenting a therapeutic treatment of a disease comprising administering to an individual the composition of claims 1, 12 or 22 one or more times a day over a period of about 5-7 weeks, wherein immune system function is stimulated to result in an increase of $CD4^+$ cells of at least about 15% compared to pre-administration levels.

40. (original) The method of claim 39, wherein said increase of $CD4^+$ cells further comprises an increase of greater than about 25% compared to pre-administration levels.

41. (original) The method of claim 39, wherein said increase of $CD4^+$ cells further comprises an increase of about 40% compared to pre-administration levels.

42. (original) The method of claim 39, wherein said disease comprises an immune-mediated diseases, cancer, heart disease, chronic fatigue syndrome, neurodegenerative diseases, radiation poisoning, ischemic events or an infectious disease.

43. (original) The method of claim 42, wherein said disease is selected from acquired immunodeficiency syndrome (AIDS), multiple sclerosis, lupus, rheumatoid arthritis, scleroderma, coronary artery disease, atherosclerotic vessel disease, Madalung's disease, neoplastic conditions, solid tumor malignancies, non-solid malignancies, Alzheimer's disease, Parkinson's disease, neurodegenerative forms of dementia, infectious hepatitis, toxic hepatitis, drug-induced hepatitis, herpes and human immunodeficiency virus (HIV).

44. (original) The method of claim 39, wherein said augmenting of said therapeutic treatment comprises stimulation of immune system function.

45. (original) The method of claim 39, wherein said augmenting of said therapeutic treatment comprises reduction in cellular toxicity resulting from said therapeutic treatment.

46. (original) The method of claim 45, wherein said therapeutic treatment comprises HIV medications.

47. (original) The method of claim 46, wherein said HIV medications comprise reverse transcriptase inhibitors.

48. (original) The method of claim 47, wherein said reverse transcriptase inhibitors comprise a nucleoside inhibitor, a nucleotide inhibitor or a non-nucleoside inhibitor.

49. (original) The method of claim 46, wherein said HIV medications comprise an HIV protease inhibitor.

50. (original) The method of claim 46, wherein said therapeutic treatment comprises administration of stavudine or didanosine.

51. (original) A method of augmenting a therapeutic treatment of a disease comprising administering to an individual the composition of claims 1, 12 or 22 one or more times a day over a period of about 5-7 weeks, wherein a physiological detoxification function is stimulated to result in a decrease of one or more free radical markers by about 20% compared to pre-administration levels.

52. (original) The method of claim 51, wherein said decrease of free radical markers comprises a decrease of greater than about 30% compared to pre-administration levels.

53. (original) The method of claim 51, wherein said decrease of free radical markers comprises a decrease of greater than about 40% compared to pre-administration levels.

54. (original) The method of claim 51, wherein said decrease of free radical markers comprises a decrease of about 50% compared to pre-administration levels.

55. (original) The method of claim 51, wherein said stimulation of a physiological detoxification function comprises inhibition of mitochondrial DNA polymerase gamma.

56. (original) The method of claim 51, wherein said stimulation of a physiological detoxification function comprises increasing a liver detoxification function.

57. (original) The method of claim 56, wherein said liver detoxification function comprises an increase in energy production, an increased ability to process toxins or a decrease in free radical markers.

58. (original) The method of claim 51, wherein said disease comprises an immune-mediated diseases, cancer, heart disease, chronic fatigue syndrome, neurodegenerative diseases, radiation poisoning, ischemic events or an infectious disease.

59. (original) The method of claim 58, wherein said disease is selected from acquired immunodeficiency syndrome (AIDS), multiple sclerosis, lupus, rheumatoid arthritis, scleroderma, coronary artery disease, atherosclerotic vessel disease, Madalung's disease, neoplastic conditions, solid tumor malignancies, non-solid malignancies, Alzheimer's disease, Parkinson's disease, neurodegenerative forms of dementia, infectious hepatitis, toxic hepatitis, drug-induced hepatitis, herpes and human immunodeficiency virus (HIV).

60. (original) The method of claim 51, wherein said augmenting of said therapeutic treatment comprises stimulation of immune system function.

61. (original) The method of claim 51, wherein said augmenting of said therapeutic treatment comprises a reduction in cellular toxicity resulting from said therapeutic treatment.

62. (original) The method of claim 61, wherein said therapeutic treatment comprises HIV medications.

63. (original) The method of claim 62, wherein said HIV medications comprise reverse transcriptase inhibitors.

64. (original) The method of claim 63, wherein said reverse transcriptase inhibitors comprise a nucleoside inhibitor, a nucleotide inhibitor or a non-nucleoside inhibitor.

65. (original) The method of claim 62, wherein said HIV medications comprise an HIV protease inhibitor.

66. (original) The method of claim 62, wherein said therapeutic treatment comprises administration of stavudine or didanosine.